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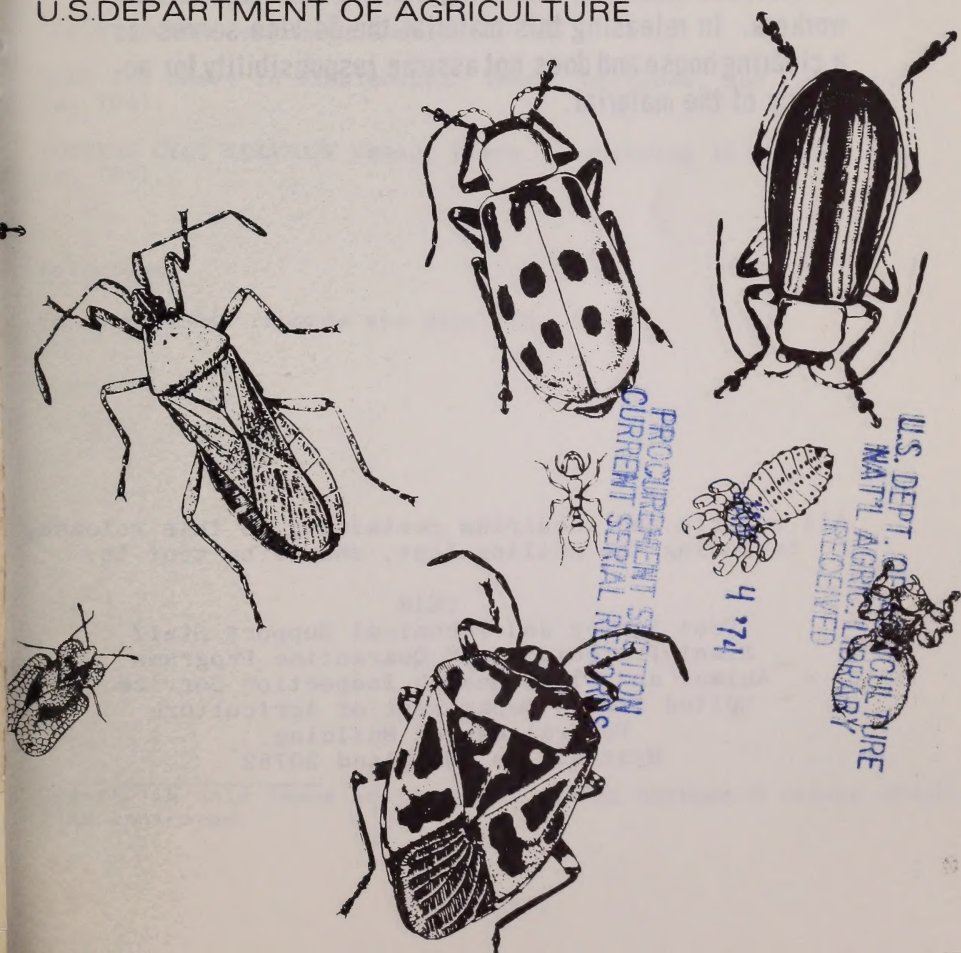
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Cooperative Economic Insect Report

Issued by

PLANT PROTECTION AND QUARANTINE PROGRAMS
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
U.S. DEPARTMENT OF AGRICULTURE



ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
PEST SURVEY AND TECHNICAL SUPPORT STAFF

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Service serves as a clearing house and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

FALL ARMYWORM heavy on small grains and in pastures in Texas, Oklahoma, and Missouri. (p. 700).

VELVETBEAN CATERPILLAR defoliation of soybeans heavy in southern Alabama. (p. 701).

STRAWBERRY CROWN MOTH heavy on strawberries in northwestern Oregon. (p. 703).

LOCUST BORER severe in northern UTAH.

HORN FLY heavy in Mississippi, Texas, Oklahoma, and Colorado. (p. 704).

SOYBEAN CYST NEMATODE damage heavy to soybeans in Mississippi. (p. 704).

Detection

For new county records see page 706.

Reports in this issue are for week ending October 5 unless otherwise indicated.

CONTENTS

Special Insects of Regional Significance.....	699
Insects Affecting	
Corn, Sorghum, Sugarcane....	699
Small Grains.....	700
Turf, Pastures, Rangeland....	700
Forage Legumes.....	700
Soybeans.....	701
Cotton.....	702
Deciduous Fruits and Nuts..	702
Small Fruits.....	703
Forest and Shade Trees....	703
Man and Animals.....	704
Federal and State Plant Protection Programs.....	704
Hawaii Insect Report.....	706
Detection.....	706
Corrections.....	706
Light Trap Collections.....	707

WEATHER OF THE WEEK ENDING OCTOBER 8

Reprinted from Weekly Weather and Crop Bulletin supplied by Environmental Data Service, NOAA.

HIGHLIGHTS: While fall came to New England and other parts of the Northeast, winter invaded the Pacific northwest and snow drove its way into Washington and the Rockies. Elsewhere, precipitation was mainly associated with a slow moving cold front. Some corn belt areas received truly torrential rains mostly about midweek.

PRECIPITATION: Large areas from the corn belt, east had from 0.80 to 2 inches of rain while most other eastern areas got from 0.30 to 0.80 inches. Most rain was associated with a cold front which took from about Tuesday through Friday to meander from the western Plains to the Atlantic seaboard. In the west, weekend rain and snow swept into the droughty area. Parts of California received 2 inches of rain while the mountain areas got up to 0.30 inch of precipitation in rain and snow. Scattered Monday thundershowers dropped rain mostly east of Mississippi chiefly in the South. Valparaiso, Florida, got 2.35 inches, and Knoxville, Tennessee, received 1.82 inches. Tuesday was also rainy in the Nation's eastern third. The east coast felt some significant downpours, Newport News, Virginia, received 2 inches. Later in the day, a cold front began to move through the corn belt dumping heavy rains and hail. Springfield, Illinois, received more than 3 inches of rain in 3 hours accompanied by 3 and one-quarter inches of hail. During 6 hours ending 1 a.m. Wednesday, Sedalia, Missouri, received 4.70 inches of rain. Wednesday, a cold front moved eastward with a band of showers. The day's main rains extended from central Oklahoma through northeast Illinois, the heaviest from east Kansas to central Illinois. Northern Missouri, which received over 4 inches of rain overnight Tuesday, posted flash flood warnings Wednesday; marble-sized hail pelted Moberly, Missouri, Wednesday morning while Montgomery, Missouri, reported golf ball sized hail. Thursday morning storms extended along the same front from the Great Lakes and Ohio Valley through northwest Texas. The heaviest overnight rains hit Missouri. Clifton City was drenched in 7 inches, nearby Sedalia got 5.50 inches along with 1 inch of hail. Thundershowers continued throughout the afternoon. Weather of the week continued on page 708.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

BEEF LEAFHOPPER (*Circulifer tenellus*) - CALIFORNIA - Adults averaged 12 and nymphs 6 per sweep of Russian-thistle at Oildale and Bakersfield, Kern County. Adults averaged 9 and nymphs 1 per sweep in Cuyama Valley, and adults averaged 7 and nymphs 1 per sweep in Carriso Plains, San Luis Obispo County. Russian-thistle beginning to dry in a few scattered areas. To date, highest percentage of drying plants is near Bakersfield, Kern County. Most counts show increase of nymphs and some dark (overwintering) adults. (Cal. Coop. Rpt.).

CORN EARWORM (*Heliothis zea*) - NEW MEXICO - Heavy on dent corn in Harding County. Some fully grown larvae feeding on drying ears and in stalks. (N.M. Coop. Rpt.). OKLAHOMA - Ranged 4-7 per 10 sweeps of alfalfa in Kingfisher, Canadian, Grady, and Garvin Counties. Light on alfalfa in Payne and west-central counties. (Okla. Coop. Sur.). KANSAS - Larval averages ranged 0-72 per 100 sweeps of 8 to 12-inch alfalfa in Woodson County and 0.5 per square foot of 2-inch alfalfa in Wilson County. Larvae averaged one per ear on late field corn in Atchison County. (Bell). ALABAMA - *H. zea* and *Spodoptera exigua* (beet armyworm) very heavy in small soybean acreage of 100-acre field at Gallion, Marengo County. *H. zea* migrated from weeds to soybeans. (Yates). FLORIDA - Corn earworms, 1-3 per plant, damaged pods of lima, pole, and snap beans at Ocoee, Orange County. (Moherek). VIRGINIA - Larvae feeding in lower fruit on apple trees in an orchard in Albemarle County on September 27. Collected by E. Phillips. (Allen).

GREENBUG (*Schizaphis graminum*) - WASHINGTON - This species and *Rhopalosiphum padi* (an aphid) ranged 50-100 per row foot on Benton County wheat. Some damage evident. Treatments applied. (Klostermeyer). NEW MEXICO - Persisting on sorghum in northeast and east-central areas. Seedling wheat showing some damage in Quay County. (N.M. Coop. Rpt.). TEXAS - Some damage to small grains noted in Hale County. Some fields treated. (Latham). OKLAHOMA - Light on wheat in Custer, Washita, Beckham, and Caddo Counties. (Okla. Coop. Sur.).

CORN, SORGHUM, SUGARCANE

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - KENTUCKY - Damage heaviest in Graves, Christian, Henderson, and Union Counties. Larva collected from tap root of corn plant in Breckenridge County. by D. Barnett, October 4. Determined by W.W. Gregory. This is a new county record. (Barnett). OKLAHOMA - Larvae began girdling stalks in most Texas County corn. Some lodging occurred in most fields, 30 percent in one field. (Okla. Coop. Sur.). NEW MEXICO - Larvae 1+ per cornstalk in Union and Harding Counties. (N.M. Coop. Rpt.).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - KENTUCKY - Percent plants infested by county (number of borers per 100 plants in parentheses): Graves 21.6 (12.8), Calloway 27.2 (12.5), Trigg 64.0 (105.6), Christian 63.2 (117.2), Todd 43.2 (25.8), and Logan 59.2 (23.2). About 10-15 percent of grain acreage harvested. (Barnett). SOUTH DAKOTA - Fall abundance survey completed in some counties. Average percent infestation (average number of borers per 100 stalks in parentheses) by county: Bon Homme 57 (137), Clark 36 (63), Codington 26 (22), Douglas 50 (97), and Hutchinson 59 (123). (Jones).

SORGHUM WEBWORM (Celama sorghiella) - OKLAHOMA - Up to 75 per head of late sorghum in Payne County. (Okla. Coop. Sur.).

RICE WEEVIL (Sitophilus oryzae) - NORTH CAROLINA - Adults still heavy on unharvested corn and around outdoor lights. Problem to date not general but warrants field survey before harvesting. (Hunt).

SORGHUM MIDGE (Contarinia sorghicola) - MISSISSIPPI - Ranged 7-10 per head in 50 acres of sorghum in Noxubee County. (Robinson).

SMALL GRAINS

FALL ARMYWORM (Spodoptera frugiperda) - TEXAS - This species and S. ornithogalli (yellowstriped armyworm) damaged small grains in parts of Hardeman County. (Boring et al.). OKLAHOMA - S. frugiperda heavy, up to 2 per linear foot, on fall-sown wheat in Kiowa, Jackson, and Harmon Counties. None to heavy in west-central counties. (Okla. Coop. Sur.). MISSOURI - Larvae up to 15 per row foot in south-central and southwest areas. Completely stripped field margins and spots within some fields. (Munson).

MEXICAN BEAN BEETLE (Epilachna varivestis) - MARYLAND - Adults destroyed 30 acres of newly seeded rye near Reids Grove, Dorchester County. (U. Md., Ent. Dept.).

TURF, PASTURES, RANGELAND

FALL ARMYWORM (Spodoptera frugiperda) - TEXAS - Damaged oat pastures in Burleson and McCulloch Counties. (Boring et al.). OKLAHOMA - Ranged 12-20 per square foot in fall-seeded grass and rye pastures in McClain County. (Okla. Coop. Sur.).

A GRASS WEBWORM (Herpetogramma phaeopteralis) - FLORIDA - Heavy on 750-1,000 square feet of St. Augustine grass in yard, and damaging mixed grass lawn (including St. Augustine grass) at Gainesville, Alachua County. (Habeck et al.).

CHINCH BUG (Blissus leucopterus leucopterus) - MISSISSIPPI - Destroying pasture grasses in spots, up to 1 acre in size, in Forrest County. (Robinson).

RHODESGRASS SCALE (Antonina graminis) - CALIFORNIA - Adults on St. Augustine grass at San Clemente, Orange County, a new location. (Cal. Coop. Rpt.).

BERMUDAGRASS MITE (Eriophyes cynodoniensis) - FLORIDA - Still heavy in Bermuda grass golf course at Sarasota, Sarasota County; Naples, Collier County; Ft. Lauderdale, Broward County; and Miami, Dade County. (Fla. Coop. Sur.).

FORAGE LEGUMES

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - Heavy on newly planted alfalfa in Grady County. Ranged 1-4 per 10 sweeps in established fields in Kingfisher, Canadian, Grady, and Garvin Counties. (Okla. Coop. Sur.). KANSAS - Fall armyworm larvae averaged 5-8 per square foot and GARDEN WEBWORM (Loxostege rantis) larvae averaged 5-6 per square foot of seedling alfalfa in Wilson

County; damage heavy. Fields had been treated. Garden webworms averaged 0-10 per 100 sweeps of older alfalfa in Woodson County. (Bell).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - Averaged 230 per 10 sweeps of alfalfa in Kingfisher County. Ranged 44-94 per 10 sweeps in Canadian, Grady, and Garvin Counties. Moderate in Payne County and heavy in west-central counties. (Okla. Coop. Sur.).

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - Adults 2 and larvae 3 per 25 sweeps of alfalfa near Belen, Valencia County. (N.M. Coop. Rpt.). OKLAHOMA - Light adult populations moving onto Payne County alfalfa. (Okla. Coop. Sur.). MISSOURI - Adults light, 0-6 per 10 sweeps, on central area alfalfa. (Munson).

MEXICAN BEAN BEETLE (Epilachna varivestis) - MARYLAND - Adults heavily damaged 60 acres of newly seeded alfalfa near Reids Grove, Dorchester County. Adults light on most alfalfa east of Dorchester County. (U. Md., Ent. Dept.).

PEA APHID (Acyrtosiphon pisum) - ARKANSAS - Increased, but still relatively light on alfalfa in northwest area. (Boyer). MARYLAND - Increased in alfalfa on Eastern Shore, 10-48 per sweep in Queen Annes, Talbot, and Dorchester Counties. (U. Md., Ent. Dept.).

SOYBEANS

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) - ALABAMA - Larvae and defoliation heavy in many southern fields. Defoliated 90-95 percent of a 100-acre Macon County field. Larvae very heavy in late fields in Marengo County. Completely defoliated 40-acre field of old beans in this county; many partly eaten pods falling. Fourth to fifth-instar larvae one per 2-4 row feet in 10-acre field at Hammonds, De Kalb County, most northern point pest has been recorded on soybeans. (Henderson et al.).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - Heavily defoliated field in Payne County. (Okla. Coop. Sur.).

SOUTHERN GREEN STINK BUG (Nezara viridula) - ALABAMA - Heavy, widespread infestations on several thousand acres of soybeans in northern Marengo County. Heaviest populations noted at 12 per 3 row feet. Most younger fields average two per row foot; treatments applied. Infestations increased in Baldwin County. Infested almost all 28 fields surveyed on 3 farms. Ranged 3-55, averaged 18, per 30 row feet in 19 of 26 fields. (Yates, Middleton).

GREEN STINK BUG (Acrosternum hilare) - KENTUCKY - Continued to damage soybeans, especially pods, in west area. (Barnett).

BEAN LEAF BEETLE (Cerotoma trifurcata) - OKLAHOMA - Ranged 5-10 per plant in Sequoyah County. Some pod damage in more heavily infested fields. (Okla. Coop. Sur.).

A CERAMBYCID BEETLE (Dectes texanus texanus) - NORTH CAROLINA - Larvae girdled very early soybeans. Infestations expected on early maturing varieties in Washington, Hyde, and Tyrell Counties within next 14 days. (Richardson).

COTTON

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Populations increased but noneconomic in Brazos, Burleson, and Robertson Counties. Second diapause application completed in Jones, Knox, Tom Green, Taylor, Runnels, Concho, and Schleicher Counties. Diapause boll weevil control conducted on 14,275 acres in Stonewall County, 19,000 in Haskell County, 35,000 in Jones County, and 25,000 in Knox County. (Cole et al.). MISSISSIPPI - Adults common, feeding in blooms where cotton still green in Oktibbeha County. (Robinson).

BOLLWORMS (Heliothis spp.) - NEW MEXICO - H. zea (bollworm) damaged up to 20 squares per 100 reported in Dona Ana County. Eggs 8-20 per 100 plants. (N.M. Coop. Rpt.). TEXAS - H. virescens (tobacco budworm) increased slightly in Brazos, Burleson, and Robertson Counties. Some bolls damaged where cotton still green. H. zea ranged 5-20 per 100 plants in diapause control area of Knox County. (Cole, Boring). OKLAHOMA - Damaged bolls ranged 2-3 percent in Muskogee County, 4-8 percent in Wagoner County, and 1-3 percent in Bryan County. H. virescens 75 percent of larvae collected. Scattered heavy infestations still reported in Jackson County. Larvae of both species collected September 19 in Grady County averaged 20 percent parasitized, mainly by Microplitis croceipes (a braconid). (Okla. Coop. Sur.).

CABBAGE LOOPER (Trichoplusia ni) - TEXAS - Heavy in cotton not yet defoliated in Brazos, Burleson, and Robertson Counties. (Cole).

SALTMARSH CATERPILLAR (Estigmene acrea) - OKLAHOMA - Heavy populations but light defoliation in several southwest counties. Light defoliation in Wagoner and Muskogee Counties. (Okla. Coop. Sur.).

DECIDUOUS FRUITS AND NUTS

SAN JOSE SCALE (Quadraspidiotus perniciosus) - ALABAMA - Heavy on fruit, stems, and branches in Jefferson County apple orchard (one acre). (McQueen).

PEACHTREE BORER (Sanninoidea exitiosa) - NEW MEXICO - Borers ranged 1-2 per five peach trees near Belen and Los Lunas, Valencia County. (N.M. Coop. Rpt.).

FALL WEBWORM (Hyphantria cunea) - TEXAS - Active in De Witt, Victoria, Gonzales, and other south-central counties. Continued to damage pecan trees in Wilbarger, Wichita, Clay, Baylor, Young, McCulloch, and Tom Green Counties. (Cole et al.). OKLAHOMA - Infestations moderate to heavy on pecan trees in Marshall, Bryan, Payne, and Pontotoc Counties. (Okla. Coop. Sur.).

WALNUT CATERPILLAR (Datana integerrima) - OKLAHOMA - Heavy on pecan trees in Logan and Coal Counties. (Okla. Coop. Sur.).

TWIG GIRDLER (Oncideres cingulata) - OKLAHOMA - Active on pecan trees in Muskogee County. First of season. (Okla. Coop. Sur.).

WALNUT HUSK FLY (Rhagoletis completa) - UTAH - Infested black walnuts in Farmington and Bountiful areas, Cache County. (Knowlton).

SMALL FRUITS

STRAWBERRY CROWN MOTH (Synanthedon bibionipennis) - OREGON - Larvae heavy on strawberries in western Washington County. Infested 10-60 percent of fields from Cornelius north to Manning, and from 1 mile east of Gale Creek east to Schefflin (about 175 acres). Infested 10 percent of many first and second-year fields, 60 percent of plants on 10 acres of second-year berries, and 50 percent of 10 acres of first-year berries. Twenty-four acres of 3-year berries have been disced up to date. (Collins).

FOREST AND SHADE TREES

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - OKLAHOMA - Larvae and pupae heavy on pines at Stillwater, Payne County. (Okla. Coop. Sur.).

SPRUCE NEEDLEMINER (Taniva albolineana) - MONTANA - Nests heavy on ornamental spruce at Culbertson, Roosevelt County, and at Bozeman, Gallatin County, to a lesser degree. (Pratt).

REDHEADED PINE SAWFLY (Neodiprion lecontei) - WEST VIRGINIA - Defoliation moderate, 10-15 percent, to one acre of Virginia pines at Sutton, Braxton County. Collected by R.E. Whipkey. Determined by J.D. Hacker. This is a new county record. (Hacker).

LOCUST BORER (Megacyllene robiniae) - UTAH - Destroyed most black locusts in Salt Lake County; severely damaged many in Davis and Weber Counties. (Knowlton).

GREAT ASH SPHINX (Sphinx chersis) - NEW MEXICO - Defoliation severe on Fraxinus sp. (white ash) planted near Glenrio, Quay County. (N.M. Coop. Rpt.).

VARIABLE OAKLEAF CATERPILLAR (Heterocampa manteo) - KANSAS - Half to full-grown larvae caused slight to heavy defoliation of some oaks, particularly some small pin oaks, in Shawnee County. (Bell).

A GRASSHOPPER (Dendrotettix quercus) - WISCONSIN - Still feeding on oaks in Jackson County. Defoliation complete on some oaks, 25 percent on others. (Wis. Ins. Sur.).

A LEAFHOPPER (Caladonus coquilletti) - CALIFORNIA - Nymphs and adults 500 per stem and twig of European plane trees on grounds of county buildings at Hanford, Kings County. (Cal. Coop. Rpt.).

OYSTERSHELL SCALE (Lepidosaphes ulmi) - UTAH - Heavily infested golden willow in the Capitol Reef National Park area, Wayne County. (Roberts, Wallace).

AN ARMORED SCALE (Diaspidiotus liquidambaris) - CALIFORNIA - Observed two miles from original location at Palo Alto, Santa Clara County. This area has oldest liquidambar trees in Palo Alto. Infested 132 trees 30-50 feet high, some heavily. This area within two miles of San Mateo County line. (Cal. Coop. Rpt.).

MAN AND ANIMALS

SCREWORM (Cochliomyia hominivorax) - Total of 768 confirmed cases reported in continental U.S. September 23-29 as follows: Texas 530, New Mexico 48, Arizona 178, California 11, Utah 1. Total of 407 cases confirmed from Mexico. Number of sterile flies released this period totaled 145,899,400 as follows: Texas 108,727,600; New Mexico 9,756,000; Arizona 26,533,800; California 882,000. Total of 35,082,200 sterile flies released in Mexico. (Anim. Health).

HORN FLY (Haematobia irritans) - MISSISSIPPI - Adults averaged 300+ on 350 head of beef cattle in Forrest County. (Robinson). TEXAS - Heavy on cattle throughout counties in San Angelo area, in south-central area and in Clay and Wilbarger Counties. (McWhorter). OKLAHOMA - Ranged 350-400 per head on cattle in Payne County and 150-200 per head in Wagoner County. Heavy in Marshall County. (Okla. Coop. Sur.). COLORADO - Up to 600 per animal on untreated cattle in Las Animas County. (Hantsbarger).

MOSQUITOES - CALIFORNIA - Nuisance increased for past month in most areas. Anopheles spp. heavy in northern area where rice harvest increased. Mosquitoes breeding in any standing water in cities and towns. (Cal. Coop. Rpt.). UTAH - Still troublesome in Logan and on Cache County farms, and in Corinne and Locomotive Springs areas of Box Elder County. (Knowlton).

A LOUSE FLY (Hippobosca longipennis) - CALIFORNIA - Infestation observed at San Diego Wild Animal Park, San Pasqual, San Diego County. On September 27 the 15-acre cheetah compound was treated by helicopter using a residual material in an eradication effort. A marginal buffer zone outside the compound was sprayed. Dusting the loafing areas used by the cheetah only reduced the incident. Flies had been observed this summer. A task force, called by the San Diego County Health Officer on September 19, designed an eradication program to be monitored by Public Health in the months ahead. (Cal. Coop. Rpt.).

BLACK HORSE FLY (Tabanus atratus) - OKLAHOMA - Ranged 1-5 per head on cattle in river bottom areas of Wagoner County. (Okla. Coop. Sur.).

A COMBFOOTED SPIDER (Latrodectus hesperus) - IDAHO - Population heavier than usual in Canyon County. Residents concerned about migration into homes. (Homan).

GULF COAST TICK (Amblyomma maculatum) - TEXAS - Severely damaged cattle in south-central area along coast. Damage to ears resulted in Cochliomyia macellaria (secondary screwworm) cases. (Cole).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

CARIBBEAN FRUIT FLY (Anastrepha suspensa) - FLORIDA - Larvae collected September 26 from persimmon fruit at South Daytona, Volusia County; larva taken October 2 in fruit of pear, Pyrus sp., near Leesburg and Lady Lake, Lake County. (Fla. Coop. Sur.).

GRASSHOPPERS - NEBRASKA - Fall surveys complete. Heaviest infestations in northern Sioux County, North Platte River Valley roughly from Hershey (Keith County) west to Oshkosh (Garden County), southwestern Dundly County, and northeast area. Melanoplus bivittatus, M. differentialis, and M. femurrubrum predominant on cropland. Ageneotettix deorum, Aulocara elliotti, Amphitornus coloradus, and Trachyrachis kiowa predominant on range. (Bell, Hohnhott). TEXAS - Late infestations damaged some edges of small grain fields in Knox and parts of Wilbarger and Archer Counties. (Boring). UTAH - Very heavy on rangeland in spots in lower parts of High Creek, Green, Logan, and East Canyons of Cache County. Often 4-15 per square yard noted in smaller areas. (Knowlton). NEVADA - Trimerotropis gracilis gracilis collected at Acoma, Lincoln County, by R.C. Bechtel, August 13. Determined by R.C. Bechtel. This is a new county record. (Nev. Coop. Rpt.).

JAPANESE BEETLE (Popillia japonica) - CALIFORNIA - Eradication program in Balboa Park and adjacent areas in San Diego, San Diego County, completed for season. Ground treatment and foliage treatments completed. Complement of monitoring traps to remain until next spring when program becomes active. Total of 17 beetles recovered in traps and with visual inspection this season. (Cal. Coop. Rpt.). MASSACHUSETTS - Grubs withstood two applications of a chlorinated hydrocarbon in two years at Westfield, Hampden County. (Jensen).

MORMON CRICKET (Anabrus simplex) - NEVADA - Less than one per square yard observed in Soldier Creek area, Elko County. (Peters, Shirley).

PINK BOLLWORM (Pectinophora gossypiella) - NEW MEXICO - Larvae still increasing, average one per 100 bolls throughout Dona Ana County. Larvae noted at 2 per 100 bolls in south area. (N.M. Coop. Rpt.).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MISSISSIPPI - Heavy infestations caused late-maturing soybeans to cut out early in 7 Lee County fields. Up to 25 percent direct damage and up to 100 percent indirect loss due to lodging and disease. (Robinson).

HAWAII INSECT REPORT

New State Records - Specimens of an APHID (Dactynotus pseudambrosiae) collected on Hypochaeris radiata on Mt. Haleakala, Maui, at about 10,000 feet by H. Shepard, June 27, 1970. Specimens of an APHID (Aphis oestlundii) collected on stems and leaves of Oenothera strigosa on Mt. Haleakala, Maui, at about 7,500 feet by H. Shepard, June 27, 1970. Distribution includes Colorado, Idaho and Utah. Both species determined by M.D. Leonard. (Leonard).

General Vegetables - TOBACCO FLEA BEETLE (Epitrix hirtipennis) adults and damage heavy on scattered eggplants in 5-acre community garden at Kaumakani, Kauai; damaged as much as 80 percent of leaves. Damage and infestation less on tomato in same area. (Sugawa). CORN EARWORM (Heliothis zea) heavy in 2 acres of sweet corn at Waimanalo, Oahu; one or more larvae in nearly all ears. (Kawamura).

Ornamentals - HAWAIIAN THRIPS (Taeniothrips hawaiiensis) trace to light in 9 acres (3 plantings) of tuberose at Waimanalo, Oahu; averaged less than one nymph or adult per open blossom. WEEVILS (Orchidophilus spp.) remain light in 1,000 square feet of Vanda joaquim orchids at Waimanalo, Oahu; adults damaged 10-15 percent of flowers. (Kawamura).

Beneficial Insects - All stages of a TINGID BUG (Leptobyrsa decora) moderate on lantana in pastures at Ulupalakua and Iao Valley, Maui. (Miyahira).

General Pests - Rolled leaves containing pupae of BANANA SKIPPER (Erionota thrax) collected from a banana plant at McCully, Oahu, about 11 miles from original point of discovery at Hickam. Now within 8 miles of the banana belt at Waimanalo, Oahu. (Kawamura).

DETECTION

New County Records - A GRASSHOPPER (Trimerotropis gracilis gracilis) NEVADA - Lincoln (p. 705). REDHEADED PINE SAWFLY (Neodiprion lecontei) WEST VIRGINIA - Braxton (p. 703). SOUTH-WESTERN CORN BORER (Diatraea grandiosella) KENTUCKY - Breckenridge (p. 699).

CORRECTIONS

CEIR 23(38):652 - SMALL GRAINS - FALL ARMYWORM (Spodoptera frugiperda) ... KANSAS - "Damaged wheat along borders of field of early planted rye in Ellis County." should read "Damaged early planted rye along borders of a field in Ellis County." (Bell).

LIGHT TRAP COLLECTIONS

	Temperature F	Precipitation inches	Type of trap	Crops															
				Apple tree	Black currant	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor	Black currant vapor
ARKANSAS																			
Dell 9/26-10/2			BL																
Kelso 9/27-10/2			BL																
FLORIDA																			
Gainesville 9/28-10/4			BL																
KANSAS																			
Tribune 10/2			BL																
MISSISSIPPI																			
Stoneville 9/28-10/4	63-89	0.41	2BL	53	1														
PENNSYLVANIA (Districts)																			
Northeast 9/24-10/1			BL																
Northwest 9/24-10/1			BL	1															
WISCONSIN																			
Hartford 9/25-10/1			BL	4															
Mazomanie 9/27-10/3			BL	5															

Weather of the week continued from page 698.

Ft. Leonard Wood, Missouri, received 1.16 inches in 6 hours. San Antonio, Texas, got more than 3 inches between 2:30 and 5:30 p.m. late Thursday the storm reached Pennsylvania where winds damaged homes and barns. The storm cracked open three natural gas wells near Ninevah, Pennsylvania, Friday, the front hung along the Appalachians through the deep south and into Texas while showers punctuated the front, most rain was light. By mid-Saturday, a High pushed the front out over the Atlantic from Georgia north, while it still ran through the south into the mountains of the Pacific Northwest. Heavy snow was reported in the Washington Mountains from 3,000 feet up. Rain drenched the lower elevations. Toledo, Washington, got almost 2 inches of rain Friday and Saturday. Sunday, rain and snow moved through the northwest. Stockton, California, reported 0.50 inch of rain in 6 hours. By late Sunday, rain and snow was general from the north Pacific coast to the Great Basin, an area that remained mostly dry all summer.

TEMPERATURE: East of the Rockies, temperatures averaged mostly above normal. Large areas east of the Mississippi held 3 to 6 degrees above normal while a large east coast area and one extending from the Deep South into Ohio, averaged 6 degrees above normal. In the west, temperatures averaged mostly 3 degrees to 6 degrees subnormal while one Nevada, Oregon coldspot averaged 9 degrees below norm. Monday, a High moving across New England brought subfreezing temperatures to northern New England. Elsewhere temperatures were in the 30's and 40's from the north Pacific coast into the Dakotas; 50's, 60's, and 70's opened the week across the southern tier of States. Tuesday temperatures began mostly in the 50's and 60's however they ranged from 81 degrees at Needles, California, to 29 degrees at Redmond, Oregon. By midday, the mercury only reached the cool 50's in the Pacific Northwest. Wednesday morning both the northern and southern Rockies felt freezing temperatures. Missoula, Montana, began with 27 degrees while high areas in Colorado and Utah also recorded high 20's. Thursday, an 11 State western area from Washington to the Dakotas and south into Arizona and New Mexico began the day below 32 degrees. During the day most of the area got into the low 60's to low 70's. To the east things were warmer, eastern areas began Friday in the 50's in New England to the 70's in the Gulf States. Saturday, a High over Pennsylvania brought cooler temperatures to the northeast, lows in the 30's were felt around the Great Lakes and in northern parts of the mid-Atlantic States. Afternoon temperatures ranged from the 50's in the northwest and New England to around 90 degrees along the gulf and in the southwestern deserts. Saturday and Sunday temperatures in northern California dropped as much as 25 degrees following a front that brought snow to the higher elevations.

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